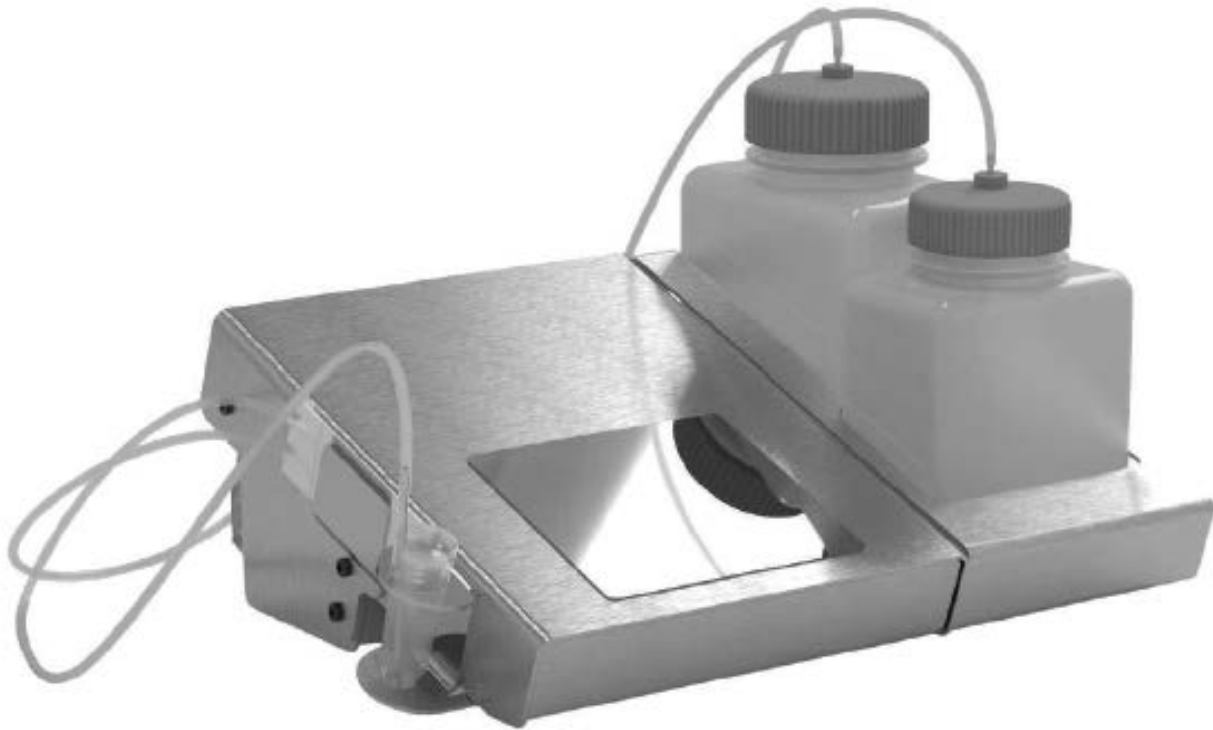


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# Rapid analysis of INTESTINAL PARASITES FROM FAECAL SAMPLES

(HELMINTH OVA AND LARVAE / PROTOZOA CYSTS AND OOCYSTS)



### Health and Safety Benefits

- Safer for lab staff as no contact with hazardous samples or reagents
- Self Cleaning at the push of a button before and after samples are processed, no cross contamination

### Performance Benefits

- Increased sensitivity
- Rapid automated transfer of parasite concentrates into ParaSlide™ optical assembly for analysis
- Improved morphology of Ova, Larvae, Cysts and Oocysts in our ParaSlide™ as there is no coverslip distortion
- More consistent results with fixed sample size and human error eliminated which enables laboratories to have a Standardised procedure in place
- Saves money with no slides, coverslips or pipettes required - faster than manual microscope processing
- Optimises human resources, reducing operational time

## TECHNIQUE PRINCIPLES

Correct analysis of intestinal parasites involves taking a faecal sample, filtering out the unwanted debris and fat cells, and then examining under a microscope for Protozoa Cysts, Oocysts, Helminth Ova, and any larvae stages that may be present. This process of filtration is termed "concentration" and results in a sample clean enough to view under a microscope, whilst still retaining any parasite lifecycle stages from the original stool sample.

Once concentration has taken place, a representative portion of this concentrate needs to be microscopically examined in order to visibly identify any Protozoa Cysts, Oocysts, Helminth Ova or larvae stages that are present. This requires thorough mixing of the concentrate (to ensure a representative sample is taken) and then transferring a drop size portion to a microscope slide before placing a coverslip over the sample ready for examination. This procedure is time consuming, messy and adds cost by using a slide, coverslip and pipette for each sample you want to examine.

The ParaSys™ was designed to automate the above procedure as far as possible, removing any inconsistencies between users, to provide a faster, safer, cleaner method which gives improved parasite identification and easier sample viewing.

## PARASYS™ PREPARATIONS ARE BETTER QUALITY THAN MANUAL SLIDE LOADING

The ParaSlide™ has a fixed chamber depth and volume of 100µl which a slide/coverslip combination does not have. Instead of being 'squashed' under a coverslip the parasites 'float' inside the chamber and are easier to see as they better maintain their morphology.